



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GE90-94B BYPASS RATIO: 8.3
 UNIQUE ID NUMBER: 6GE091 PRESSURE RATIO (π_{00}): 40.5
 COMBUSTOR: DAC II
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 432.8

REGULATORY DATA **** DATA SUPERSEDED ** SEE FOLLOWING UID FOR REVISED DATA: 8GE100**

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	0.8	17.5	83.2	4.8
AS % OF ORIGINAL LIMIT	4.0	14.8	68.7	30.0
AS % OF CAEP/2 LIMIT (NO _x)			85.9	
AS % OF CAEP/4 LIMIT (NO _x)			94.5	
AS % OF CAEP/6 LIMIT (NO _x)			104.0	
AS % OF CAEP/8 LIMIT (NO _x)			116.9	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	3.514	0.04	0.12	56.41	3.7
CLIMB OUT	85	2.2	2.848	0.04	0.12	41.74	2.9
APPROACH	30	4.0	0.908	0.05	1.07	17.38	3.2
IDLE	7	26.0	0.296	0.41	12.69	6.09	2.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1203	221	6156	30617	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				0.5	14.2	70.8	3.7
SIGMA (D _p /F ₀₀ in g/kN, or SN)				0.0	0.4	0.3	0.7
RANGE (D _p /F ₀₀ in g/kN, or SN)				0.47-0.53	13.83-14.49	70.43-70.92	2.89-4.29

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.3-98.2
TEMPERATURE (K)	279.1-281.6
ABS HUMIDITY (kg/kg)	0.0022-0.0064

FUEL

SPEC	Jet A
H/C	1.92
AROM (%)	17.4

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: GE90 Eval Engineering
 TEST LOCATION: Site IID, PTO, Peebles, OH
 TEST DATES: 09/01/2000-12/01/2000

REMARKS

1. Ref. GE Report R97AEB298,
2. Engine S/N 900326
3. Turbomachinery incorporating 3D aero

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)